

Figure 1: Digital UWB-OFDM Transmitter

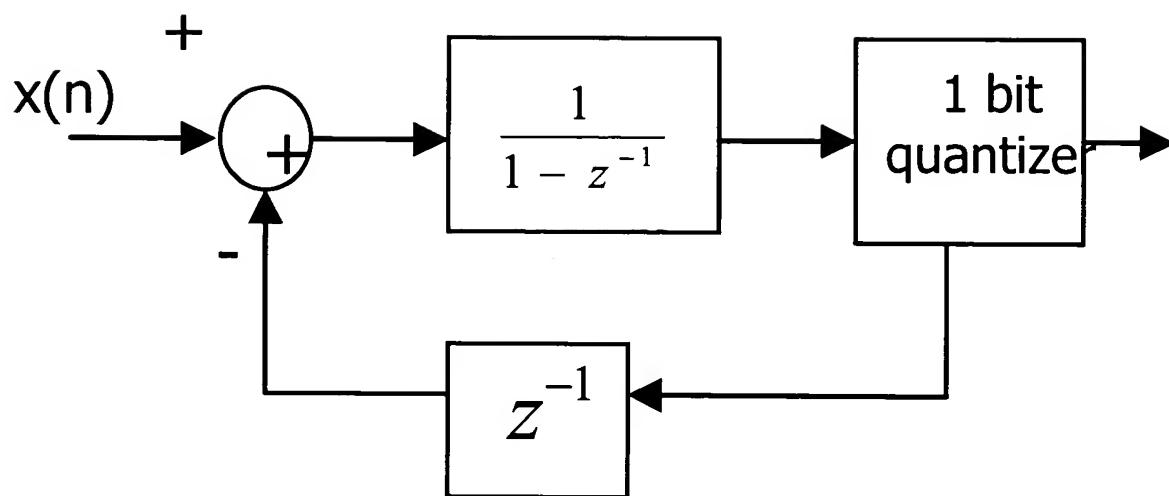


Figure-2 Traditional sigma-delta modulator

(Prior Art)

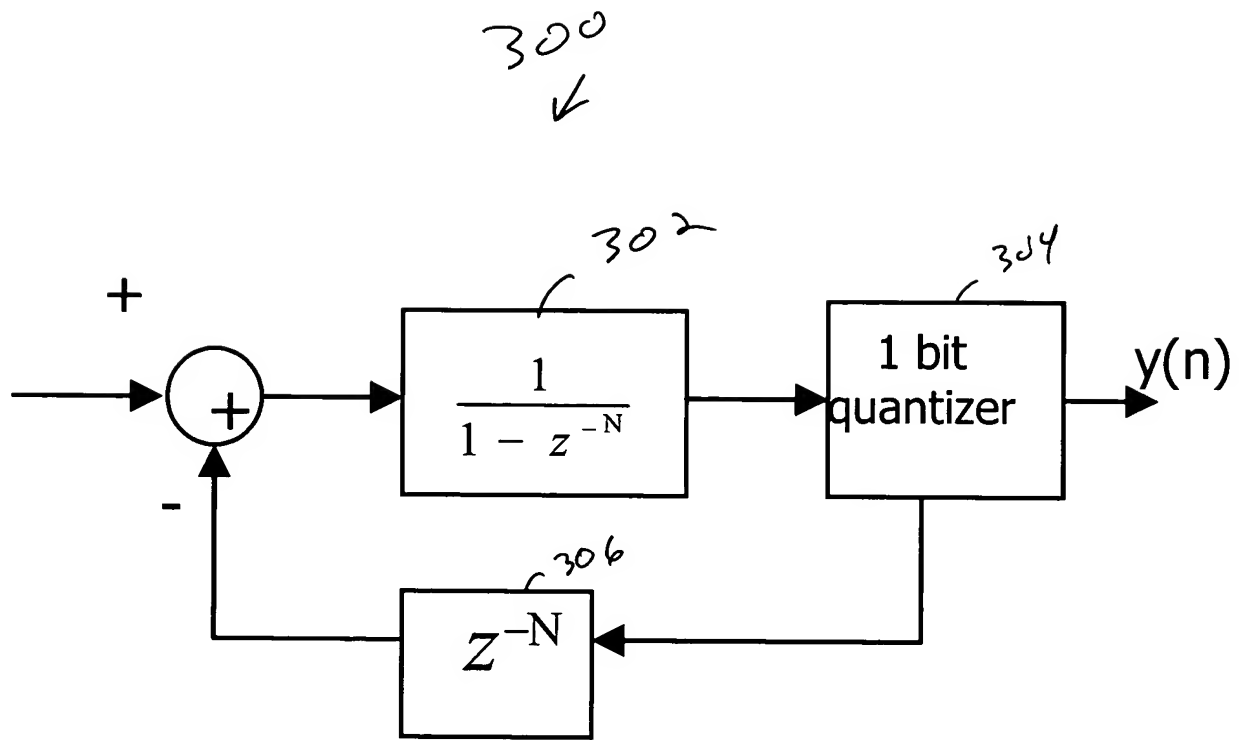


Figure-3 N-Tone Sigma-Delta modulator

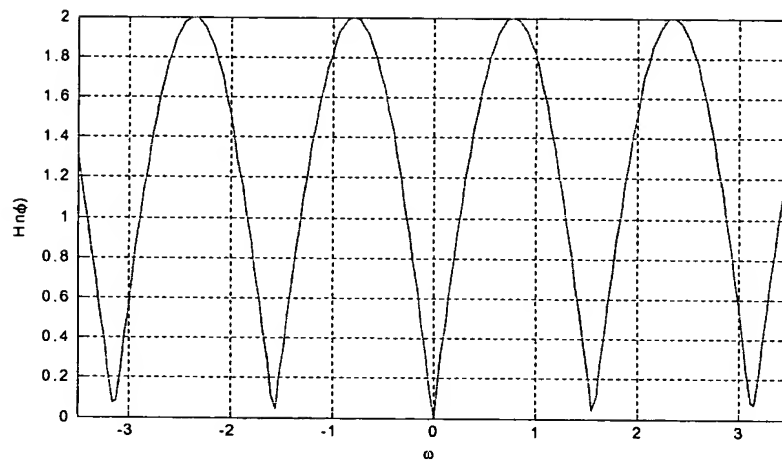
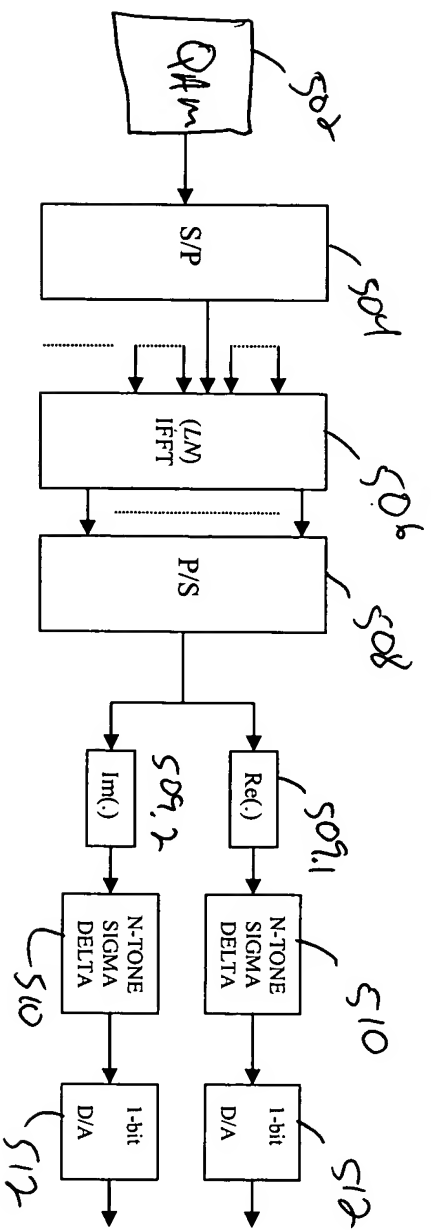


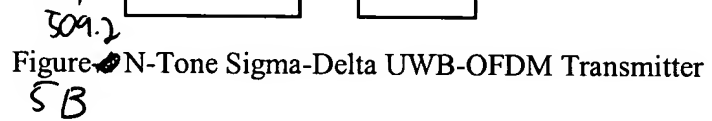
FIG. 4

500 ✓



N-Tone sigma-delta UWB-OFDM Transmitter

FIG. 5A



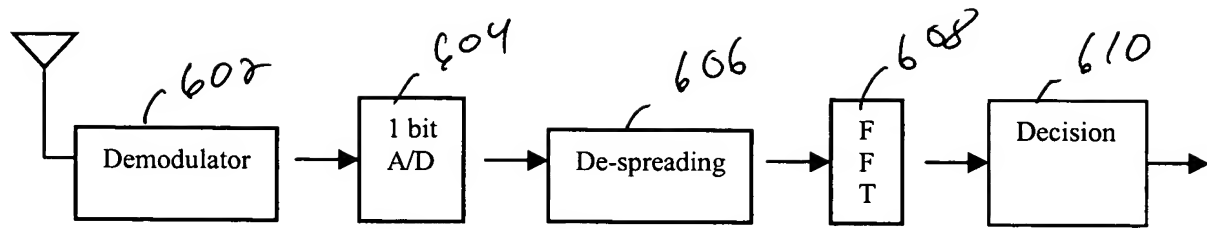


Figure 6A Receiver for single path channel

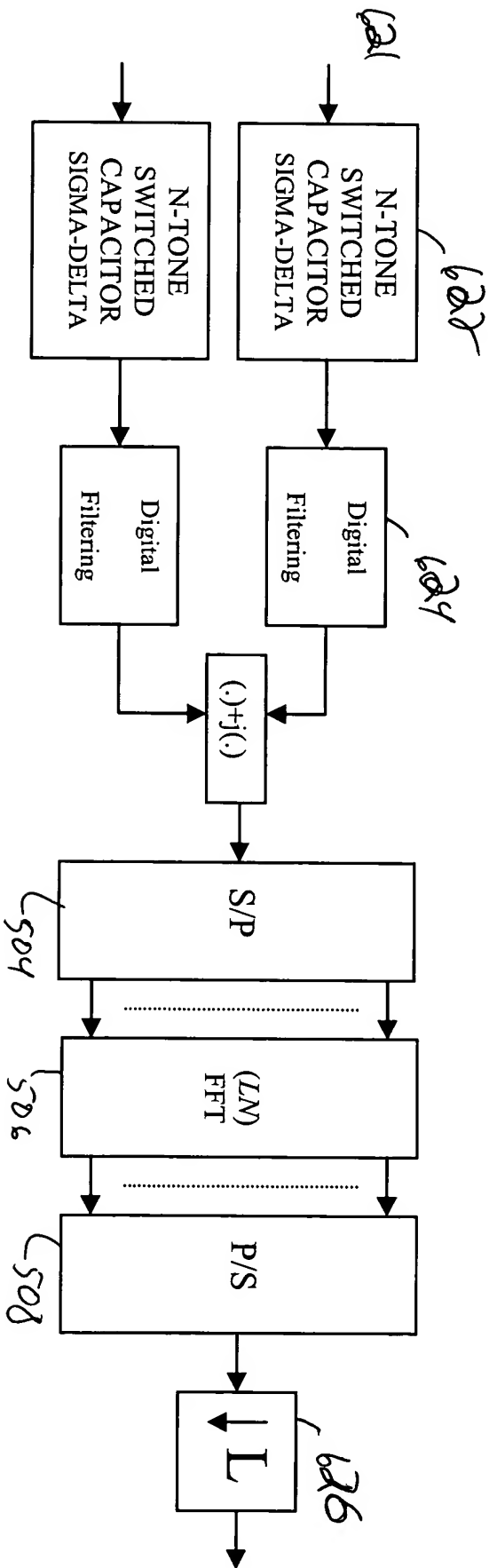


Figure-8 N-Tone sigma-delta UWB-OFDM Receiver
68

650
↓

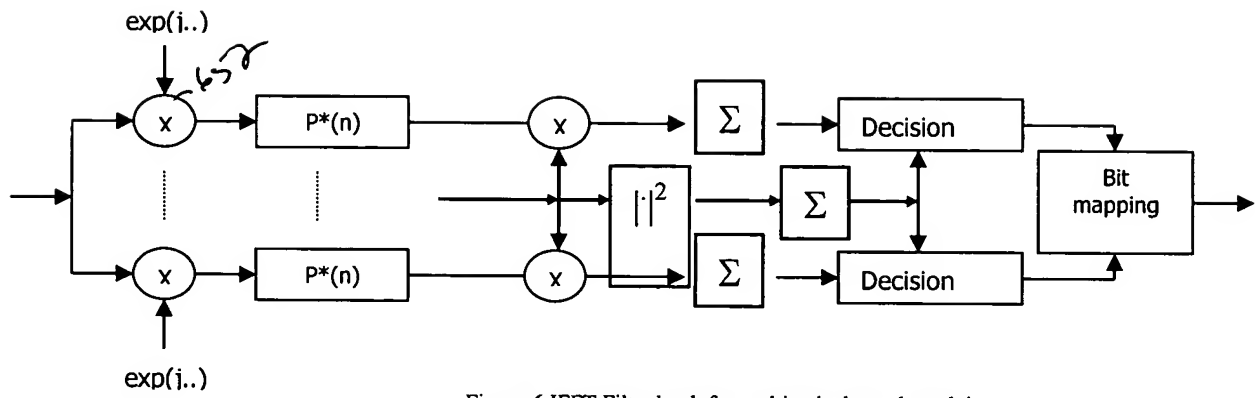


Figure 6 IFFT Filter bank for multipath channel resolving
6C 48